

PROJECT DESCRIPTION

EQUIPMENT LIST

I. General

This project involves the reconstruction of an existing traffic control signal in conjunction with geometric improvements at the intersection of Democracy Boulevard at MD 187 (Old Georgetown Road) in Montgomery County, Maryland. MD 187 is assumed to run in a North-South direction.

II. Intersection Operation

No change to existing operation.

III. Special Notes

1. Maintenance of traffic will be handled by the Contractor utilizing the following standard plates for traffic control: 104.00-13, 104.00-19, 104.00-21 - 104.00-24, 104.17-02, 104.39-02, 104.4-02, 104.41-02, 104.48-02, 104.49-02, 104.81-01

2. The following contact persons for District #3 are as follows:

Mr. Charles Watkins
District Engineer Asst.
Phone #(301) 513-7311

Mr. Majib Shakib
District Engineer-Traffic
Phone #(301) 513-7358

Mr. Randy Brown
Asst. District Engineer-Maintenance
Phone #(301) 513-7304

Mr. Joe Geckel
Asst. District Engineer-Utility
Phone #(301) 513-7350

Mr. Richard L. Daff, Sr.
Chief, Traffic Operations Division
Phone #(410) 787-7630

A. EQUIPMENT LIST

EQUIPMENT TO BE FURNISHED BY ADMINISTRATION

QUANTITY -- None

B. EQUIPMENT LIST

EQUIPMENT TO BE FURNISHED AND INSTALLED BY THE CONTRACTOR

QUANTITY	UNITS	SPECIFICATION SECTION	DESCRIPTION
LS	LS	104	Maintenance of Traffic.
LS	LS	814	Mobilization.
4	EA	814	Furnish and Install 12 in. 1 way 3 section (R,Y,G) black-faced polycarbonate signal head-span mount.
5	EA	814	Furnish and Install 12 in. 1 way 3 section (RA,YA,GA) black-faced polycarbonate signal head-span mount.
1	EA	814	Furnish and Install 12 in. 1 way 5 section (R,Y,YA,G,GA) black-faced polycarbonate signal head-span mount.
4	EA	814	Furnish and Install 12 in. 1 way 4 section (R,Y,G,GA) black-faced polycarbonate signal head-span mount.
1	EA	817	Install pedestrian push button and R10-4(1) sign.
52	SF	814	Furnish sheet aluminum signs consisting of: 1 ea R10-4(1) (9in. X 12 in.) (Old Georgetown Rd.) 1 ea R10-11b (24in. X 24in.) 1 ea R3-5R (30in. X 36in.) 3 ea R3-5L (30in. X 36in.) 1 ea R3-6 (30in. X 36in.) 2 ea R4-7 (24in. X 30in.)
2	CY	205	Test pit excavation.
7	CY	801	Furnish and Install concrete for signal foundation.
150	LF	555	Remove existing pavement marking any width.
275	LF	555	Furnish and Install 24 in. white thermoplastic pavement marking tape.
200	LF	555	Furnish and Install 12 in. white thermoplastic pavement marking tape.

EQUIPMENT TO BE FURNISHED AND INSTALLED BY THE CONTRACTOR

QUANTITY	UNITS	SPECIFICATION SECTION	DESCRIPTION
2	EA	814	Furnish and install 12 in., one way, 2 section (symbolic WALK/DON'T WALK) aluminum signal head, pole mount
175	LF	810	Furnish and install 2 conductor electrical cable (No.14 AWG).
350	LF	810	Furnish and install 3 conductor electrical cable (No.14 AWG).
1450	LF	810	Furnish and install 5 conductor electrical cable (No.14 AWG).
700	LF	810	Furnish and install 7 conductor electrical cable (No.14 AWG).
6	EA	813	Install overhead sign - for signals.
2	EA	813	Install ground - mounted signs.
1	EA	SP/818	Furnish and install a 12 in. X 32 ft. steel pole (Note: four - 2-1/4 in. X 96 in. anchor bolts). (Paint green to match existing poles.)
1	EA	XXX	Re-ring existing span wire.
1	EA	811	Furnish and install electrical handhole.
45	LF	805	Furnish and install 3 in. schedule 80 rigid PVC conduit (trenched).
125	LF	805	Furnish and install 3 in. schedule 80 rigid PVC conduit (bored).
LS	LS	SP	Remove and dispose of existing signal equipment.
300	LF	819	Furnish and install 3/8 in. steel span wire.
300	LF	819	Furnish and install 1/4 in. tether wire.
LS	LS	810	Reroute existing interconnect cable.
125	LF	810	Furnish and install No.6 AWG standard bare copper ground wire.
3	EA	818	Furnish and install 20 ft. lighting arm on signal structure (for video detection).
1	EA	804	Furnish and install ground rod - 1/4 in. diameter X 10 ft.
3	EA	SP	Furnish (Montgomery County Approved) video detection unit.

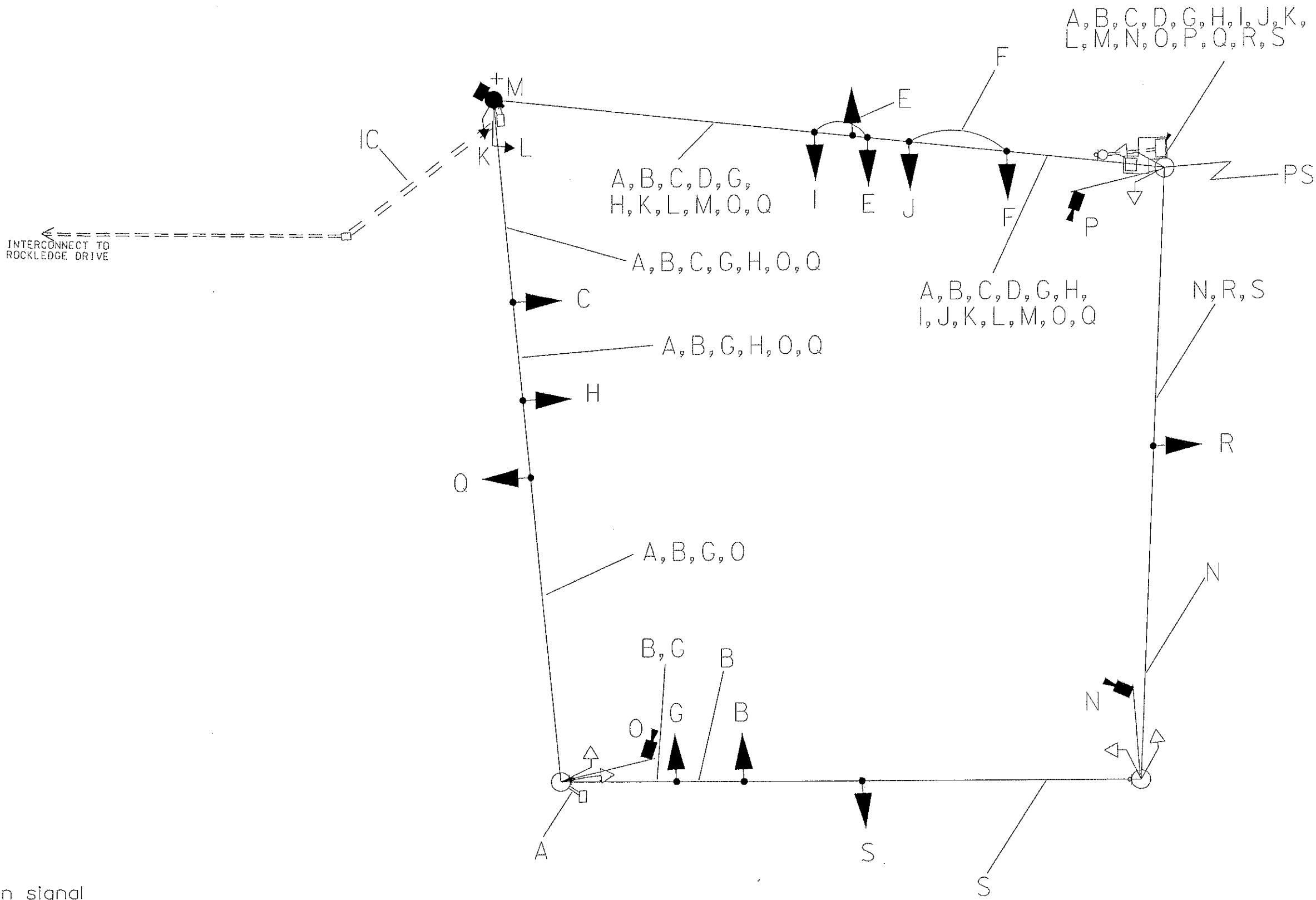
C. EQUIPMENT TO BE RETURNED TO THE ADMINISTRATION

ALL EQUIPMENT THAT IS REMOVED SHALL BECOME THE PROPERTY OF THE CONTRACTOR.

PHASING SEQUENCE CHART

NO CHANGE IN EXISTING OPERATIONS

WIRING DIAGRAM



WIRING KEY

A-F, Q-S	- 5 CONDUCTOR ELECTRICAL CABLE (NO.14 AWG)
G-J	- 7 CONDUCTOR ELECTRICAL CABLE (NO.14 AWG)
K,L	- 3 CONDUCTOR ELECTRICAL CABLE (NO.14 AWG) (FOR PEDS)
M	- 2 CONDUCTOR ELECTRICAL CABLE (NO.14 AWG) (FOR PUSH BUTTON)
N-P	- CO-AXIAL CABLE FOR VIDEO DETECTION
PS	= POWER SOURCE
IC	= INTERCONNECT CABLE
+	= Ground Rod

WELLS & ASSOCIATES, LLC

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APPROVALS

ASST. CHIEF TEDD SECTION

ASST. DISTRICT ENGINEER, TRAFFIC

CHIEF, TRAFFIC ENGINEERING DESIGN DIVISION

DIRECTOR, TRAFFIC & SAFETY



MARYLAND DOT - STATE HIGHWAY ADMINISTRATION

Office of Traffic & Safety

TRAFFIC ENGINEERING DESIGN DIVISION

DEMOCRACY BOULEVARD AND MD 187 (OLD GEORGETOWN ROAD)

DRAWN BY: SEB & MLA

CHECK BY: LES

DATE: 8/1/01

SCALE: N/A

COUNTY: MONTGOMERY

LOG MILE: 150.18703.36

F.A.P. NO.

S.H.A. NO.

TS NO.

4131

T.J.M.S. NO.

SHEET NO.

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